

| Module title  |                   | Abbreviation                         |
|---|-------------------|--------------------------------------|
| Analysis of Geomaterials  |                   | 09-AG-102-m01                        |
| Module coordinator  |                   | Module offered by                    |
| holder of the Chair of Geodynamics and Geomaterials Research  |                   | Institute of Geography and Geology   |
| ECTS  | Method of grading | Only after succ. compl. of module(s) |
| 5   | numerical grade   | --                                   |
| Duration  | Module level      | Other prerequisites                  |
| 1 semester  | undergraduate     | --                                   |
| <b>Contents</b>   |                   |                                      |
| Principles of modern methods in order to determine mineralogical, elementary and isotopic composition of minerals and rocks, e.g. x-ray diffractometry, x-ray fluorescence spectrometry, microprobe-analytics, mass spectrometry. As far as possible, practical tutorials/demonstrations will be conducted, next to the explanation of theoretical functionality, in the respective labs. |                   |                                      |
| <b>Intended learning outcomes</b>   |                   |                                      |
| Students possess the basic knowledge of common analytical methods in order to determine the chemical and isotopic composition of minerals and rocks.  |                   |                                      |
| <b>Courses</b> (type, number of weekly contact hours, language — if other than German)  |                   |                                      |
| V + Ü (no information on SWS (weekly contact hours) and course language available)  |                   |                                      |
| <b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)  |                   |                                      |
| written or oral examination of one candidate each or presentation (30 minutes each)   |                   |                                      |
| <b>Allocation of places</b>   |                   |                                      |
| --  |                   |                                      |
| <b>Additional information</b>   |                   |                                      |
| --  |                   |                                      |
| <b>Workload</b>   |                   |                                      |
| --  |                   |                                      |
| <b>Teaching cycle</b>   |                   |                                      |
| --  |                   |                                      |
| <b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)  |                   |                                      |
| --  |                   |                                      |
| <b>Module appears in</b>  |                   |                                      |
| Bachelor's degree (1 major) Technology of Functional Materials (2010)   |                   |                                      |